

CLAIMS:

1. An implantable medical device comprising:
at least two modules, each of the modules comprising a housing; and
a coupling module coupled to each of the modules, the coupling module defining
at least one lumen between the modules,
wherein the coupling module permits motion of the two modules along at least
one axis of motion.
2. The implantable medical device of claim 1, further comprising an overmold that
at least partially encapsulates each of the housings and the coupling module.
3. The implantable medical device of claim 1, wherein the coupling module permits
motion of the two modules along at least two axes of motion.
4. The implantable medical device of claim 1, wherein the coupling module defines
at least two lumens.
5. The implantable medical device of claim 1, wherein at least one of the two
modules comprises a control module containing electronic components.
6. The implantable medical device of claim 1, wherein the implantable medical
device has a maximum thickness of between approximately 4 millimeters and
approximately 8 millimeters.

7. A device comprising:
 - a first module that includes control electronics comprising a first housing;
 - a second module comprising a second housing; and
 - a coupling module fixedly coupled to the first and second housings,wherein the coupling module defines at least one lumen and wherein the coupling module permits motion of the first housing relative to the second housing and along at least one axis of motion.
8. The device of claim 7, wherein the coupling module permits motion of the multiple modules along at least two axes of motion.
9. The device of claim 7, wherein the coupling module defines at least two lumens.
10. The device of claim 9, wherein the lumens comprise co-axial lumens.
11. The device of claim 7, wherein the coupling module defines one of a circular cross-sectional shape, a semi-circular cross-sectional shape and a rectangular cross-sectional shape.
12. The device of claim 7, wherein the coupling module is hermetically fixed to at least one of the first and second housings.
13. The device of claim 7, wherein the coupling module includes a bellows section.
14. The device of claim 7, wherein the coupling module includes at least one of a corrugation, convolution, and a variation in cross-sectional shape.
15. The device of claim 7, wherein the coupling module includes at least a helical portion.
16. The device of claim 7, wherein the coupling module is made of metal.

17. The device of claim 7, wherein the metal comprises titanium.
18. The device of claim 7, wherein the coupling module is fixedly coupled to at least one housing with a weld joint.
19. The device of claim 7, further comprising:
a third module; and
a second coupling module fixedly coupled to the third module and to at least one of the first and second housings.
20. The device of claim 7, wherein the second module comprises a battery.
21. The device of claim 7, wherein the coupling module is fixedly coupled to portions of the housings that are adjacent to one other.
22. The device of claim 7, wherein the coupling module comprises at least one bend.
23. The device of claim 7, further comprising a conductor passing through the lumen that electrically couples the first and second modules.